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(54) **Elastic suit, particulary for motorcyclists**

Elastischer Anzug, insbesondere für Motorradfahrer

Combinaison élastique, en particulier pour motocyclistes

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Description

[0001] This invention relates to an elastic suit, particularly for motorcyclists.

[0002] Known suits for motorcyclists have to reconcile adherence and fit to the motorcyclist's body with elastic yieldability to allow those movements required when practising sporting activity. As these are contrasting characteristics by virtue of their nature, it is known to form the suit of inextensible material, generally leather, shaped to match the motorcyclist's body when seated on the motorcycle saddle, and to elasticize only those parts which require yieldability. In practice the elasticized parts of the suit are situated at the base of the back, at the shoulder-blades and at that of the leg above the knee.

[0003] This location of the elasticized parts of the suit results in certain drawbacks, which this invention proposes to eliminate. One of these drawbacks is that the fit of the suit is studied in relation to the position assumed by the motorcyclist when on the motorcycle saddle, ie in relation to a precise position very different from the position which the motorcyclist assumes when erect. Consequently the motorcyclist encounters considerable hindrance in maintaining the erect position and moving from it. On the other hand, if such movement is to be allowed within certain limits, the shape of the suit has to be modified, to the detriment of its fit in the driving position, hence penalizing its aerodynamics under those conditions in which highest performance is required.

[0004] US-A-4 946 453, FR-A-2 476 453 and US-A-3 086 214 disclose an elastic suit comprising an elasticized band extending symmetrically downwards along the sides from the chest and along the rear at the base of the back.

[0005] A preferred embodiment of the invention is described in detail hereinafter with reference to the accompanying drawings, on which:

Figure 1 is a front view of an elastic suit according to the invention;

Figure 2 is a side view thereof in the direction II-II of Figure 1; and

Figure 3 is a rear view thereof in the direction III-III of Figure 2.

[0006] As can be seen from the figures the elastic suit of the invention is of leather construction and in contrast to traditional suits comprises an essentially U-shaped elasticized band indicated overall by 2. It extends in the form of two portions 4 which start laterally to the chest, extend along the sides and join together at the rear with a transverse portion 6 extending along the base of the back.

[0007] The suit preferably comprises other elasticized portions, located on the shoulder-blades, on that part of the legs above the knee, and on that part of the arms above the elbow.

[0008] To form these elasticized portions, and in particular the U-shaped band 2, three pieces of elastic fabric are cut out corresponding to the sides 4 and the rear transverse portion 6 of the U-shaped band 2, in such a manner that the direction of greatest elastic yielding is perpendicular to the line of longitudinal development of said U-shaped band 2. The three pieces of elastic fabric cut out in this manner are sewn together, then subjected to tangential stretching on a suitable frame and the suit then applied to them, the whole assembly then being quilted and sewn. On conclusion of this work the leather fixed in this manner to the elastic fabric is removed from the frame, to reassume its original shape but with the leather now elastic.

[0009] The other pieces of elastic fabric are then cut out to be applied by the aforescribed procedure to those regions of the suit which are to be elasticized.

[0010] From the foregoing it is apparent that the suit of the invention has considerable advantages compared with traditional suits, and in particular:

- it provides considerable facility for movement starting both from the driving position and from the erect position, and in general from any position,
- consequently, because of this greater facility for movement, it provides a greater level of active safety for the motorcyclist,
- it substantially improves adherence of the suit to the motorcyclist's body, with consequent aerodynamic improvement in the driving position,
- it totally eliminates the lateral stitches normally present in traditional suits by virtue of the particular U shape of the band, which favours adherence of the suit to the motorcyclist's body even though formed with a smaller number of pieces.

Claims

1. An elastic suit, particularly for motorcyclist's, comprising an elasticized band (2) extending symmetrically downwards along the sides from the chest and along the rear at the base of the back, **characterized in that** said elasticized band (2) is essentially U-shaped and it extends in the form of two symmetrical side portions (4), starting laterally to the chest, which extend along the sides and join together at the rear with a rear transverse portion (6) extending along the base of the back, said elasticized portions (4, 6) are formed by three pieces of elastic fabric cut out at the sides and at the rear portions (4, 6) in such a manner that the direction of greatest elastic yielding is perpendicular to the line of longitudinal development of said elasticized band (2).
2. An elastic suit as claimed in claim 1, **characterized in that** the elasticized U-shaped band is formed

from several parts of elastic fabric joined together and positioned on the inside of the suit, to which said U- shaped portion, while maintained stretched to its maximum extent, is sewn.

3. A suit as claimed in claim 1, **characterized by** comprising further elasticized portions located at the shoulder blades.
4. A suit as claimed in claim 1, **characterized by** comprising further elasticized portions located in those leg regions above the knee.
5. A suit as claimed in claim 1, **characterized by** comprising further elasticized portions located in those arm regions above the elbow.

Patentansprüche

1. Elastischer Anzug, insbesondere für Motorradfahrer, der ein elastisches Band (2) umfasst, das sich an den Seiten von der Brust und an der Rückseite am unteren Ende des Rückens symmetrisch nach unten erstreckt, **dadurch gekennzeichnet, dass** das elastische Band (2) im Wesentlichen U-förmig ist und sich in Form zweier symmetrischer Seitenabschnitte (4) erstreckt, die seitlich von der Brust ausgehen und sich an den Seiten entlang erstrecken und an der Rückseite ineinander übergehen, wobei sich ein hinterer Querabschnitt (6) am unteren Ende des Rückens entlang erstreckt und die elastischen Abschnitte (4; 6) durch drei Stücke aus elastischem Gewebe gebildet werden, die an den Seiten und an den hinteren Abschnitten (4, 6) so ausgeschnitten sind, dass die Richtung des stärksten elastischen Nachgebens senkrecht zu der Linie der Längsabwicklung des elastischen Bandes (2) ist.
2. Elastischer Anzug nach Anspruch 1, **dadurch gekennzeichnet, dass** das elastische U-förmige Band aus mehreren Teilen aus elastischem Gewebe besteht, die miteinander verbunden und an der Innenseite des Anzugs angeordnet sind, an der der U-förmige Abschnitt angenäht wird, während er auf seine maximale Ausdehnung gedehnt gehalten wird.
3. Anzug nach Anspruch 1, **dadurch gekennzeichnet, dass** er weitere elastische Abschnitte umfasst, die sich an den Schulterblättern befinden.
4. Anzug nach Anspruch 1, **dadurch gekennzeichnet, dass** er weitere elastische Abschnitte umfasst, die sich in den Beinbereichen über dem Knie befinden.

5. Anzug nach Anspruch 1, **dadurch gekennzeichnet, dass** er weitere elastische Abschnitte umfasst, die sich in dem Armbereichen über dem Ellbogen befinden.

Revendications

1. Combinaison élastique, en particulier pour des motocyclistes extrêmes, comportant une bande rendue élastique (2) s'étendant symétriquement vers le bas le long des côtés à partir de la poitrine et le long de l'arrière à la base du dos, **caractérisée en ce que** ladite bande rendue élastique (2) est essentiellement en forme de U, et elle s'étend sous la forme de deux parties latérales symétriques (4), partant latéralement vers la poitrine, lesquelles s'étendent le long des côtés et sont reliées au niveau de l'arrière à l'aide d'une partie transversale arrière (6) s'étendant le long de la base du dos, lesdites parties rendues élastiques (4, 6) sont formées par trois pièces de tissu élastique découpées au niveau des côtés et au niveau des parties arrière (4, 6), d'une manière telle que la direction de souplesse élastique la plus importante est perpendiculaire à la ligne de développement longitudinal de ladite bande rendue élastique (2).
2. Combinaison élastique selon la revendication 1, **caractérisée en ce que** la bande rendue élastique en forme de U est formée à partir de plusieurs parties de tissu élastique reliées ensemble et positionnées sur l'intérieur de la combinaison, sur lequel est cousue ladite partie en forme de U, tout en étant maintenue étirée au maximum.
3. Combinaison selon la revendication 1, **caractérisée en ce qu'elle** comporte de plus des parties rendues élastiques situées au niveau des omoplates.
4. Combinaison selon la revendication 1, **caractérisée en ce qu'elle** comporte de plus des parties rendues élastiques positionnées dans ces zones de jambe situées au-dessus du genou.
5. Combinaison selon la revendication 1, **caractérisée en ce qu'elle** comporte de plus des parties rendues élastiques positionnées dans ces zones de bras situées au-dessus du coude.

